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PATENT AND TRADEMARK OFFICE  
NOVEMBER 25, 1996



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

NOVEMBER 25, 1996

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN  
BRADLEY J. BEREZNAK  
12400 WILSHIRE BLVD.  
7TH FLOOR  
LOS ANGELES, CA 90025

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DEC 02 1996



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BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN  
LOS ANGELES  
UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/27/1996

REEL/FRAME: 8132/0141  
NUMBER OF PAGES: 7

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:	
DULONG, CAROLE	DOC DATE: 01/18/1996
ASSIGNOR:	
KOWASHI, EIICHI	DOC DATE: 01/24/1996
ASSIGNOR:	
FISCHER, STEPHEN A.	DOC DATE: 04/26/1996
ASSIGNOR:	
MENNEMEIER, LARRY M.	DOC DATE: 02/29/1996
ASSIGNOR:	
PELEG, ALEXANDER D.	DOC DATE: 01/23/1996
ASSIGNOR:	
MAYTAL, BENNY	DOC DATE: 01/21/1996
ASSIGNOR:	
BUI, TUAN H.	DOC DATE: 01/24/1996

8132/0141 PAGE 2

ASSIGNOR:

EITAN, BENNY

DOC DATE: 01/23/1996

ASSIGNOR:

MITTAL, MILLIND

DOC DATE: 01/21/1996

ASSIGNEE:

INTEL CORPORATION  
2200 MISSION COLLEGE BLVD.  
SANTA CLARA, CALIFORNIA 95052

SERIAL NUMBER: 08578829

FILING DATE: 12/26/1995

PATENT NUMBER:

ISSUE DATE:

DOROTHY RILEY, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



08/578,829

#4000 581 AD

09-17-1996



100274065

FORM PTO-158  
(Rev. 6-93)  
OMB No. 0651-0011 (exp. 4/94)  
Tab settings

J.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

To the Honorable Commissioner of Patent

original documents or copy thereof.  
receiving party(ies):

1. Name of conveying party(ies):

Carole Dulong Larry M. Mennemeier Tuan H. Bui  
Eiichi Kowashi Alexander D. Peleg Benny Eitan  
Stephen A. Fischer Benny Maytal Millind Mittal

Name: Intel Corporation

Internal Address:

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Street Address: 2200 Mission College Blvd.

City Santa Clara State CA ZIP 95052

Execution Date:

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

08/578,829

B. Patent No.(s)



Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Blakely, Sokoloff, Taylor & Zafman

Internal Address:

Street Address: 12400 Wilshire Blvd.

7th Floor

City: Los Angeles State: CA ZIP: 90025

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41).....\$ 40.00

- ☒ Enclosed  
☐ Authorized to be charged to deposit account

8. Deposit account number:

02-2666

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Bradley J. Berezna

Name of Person Signing

Signature

6/25/96

Date

Total number of pages comprising cover sheet, attachments, and document:

8

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

Attorney Docket No.: 42390.P3366

LJV/ccm (01/31/96)

# ASSIGNMENT

(For Execution Prior To Filing Patent Application)

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, \_\_\_\_\_, the undersigned, Carole Dulong, Larry M. Mennemeier, Tuan H. Bui, Eiichi Kowashi, Alexander D. Peleg, Benny Eitan, Stephen A. Fischer, Benny Maytal, and Millind Mittal hereby sell, assign, and transfer to Intel Corporation a corporation of Delaware having a principal place of business at 2200 Mission College Boulevard, Santa Clara, CA 95052 ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements that are disclosed in the application for the United States patent that has been executed by the undersigned prior hereto or concurrently herewith on the dates indicated below and is entitled

## A SYSTEM FOR SIGNAL PROCESSING USING MULTIPLY-ADD OPERATIONS

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

### Each Inventor: Please Sign and Date Below:

<u>Jan 18</u> , 19 <u>96</u>	<u>Carole Dulong</u>
Date	Name: Carole Dulong
<u>2-29</u> , 19 <u>96</u>	<u>Larry M. Mennemeier</u>
Date	Name: Larry M. Mennemeier
_____, 19____	_____,
Date	Name: Tuan H. Bui
_____, 19____	_____,
Date	Name: Eiichi Kowashi
_____, 19____	_____,
Date	Name: Alexander D. Peleg
_____, 19____	_____,
Date	Name: Benny Eitan
_____, 19____	_____,
Date	Name: Stephen A. Fischer
_____, 19____	_____,
Date	Name: Benny Maytal
<u>1/21</u> , 19 <u>96</u>	<u>Millind Mittal</u>
Date	Name: Millind Mittal

### Each Inventor: Please also list the date that you signed the accompanying DECLARATION AND POWER OF ATTORNEY:

<u>Jan 18</u> , 19 <u>96</u>
Date
<u>2-29</u> , 19 <u>96</u>
Date
_____, 19____
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<u>1/21</u> , 19 <u>96</u>
Date

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**Name:** Millind Mittal

Date \_\_\_\_\_, 19\_\_\_\_

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In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, \_\_\_\_\_, the undersigned, Carole Dulong, Larry M. Mennemeier, Tuan H. Bui, Eiichi Kowashi, Alexander D. Peleg, Benny Eitan, Stephen A. Fischer, Benny Maytal, and Millind Mittal, hereby sell, assign, and transfer to Intel Corporation, a corporation of Delaware, having a principal place of business at 2200 Mission College Boulevard, Santa Clara, CA 95052, ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements that are disclosed in the application for the United States patent that has been executed by the undersigned prior hereto or concurrently herewith on the dates indicated below and is entitled

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Date	Name: Carole Dulong
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Date	Name: Larry M. Mennemeier
_____, 19____	_____, 19____
Date	Name: Tuan H. Bui
<u>1/24</u> , 19 <u>96</u>	<u>Eiichi Kowashi</u>
Date	Name: Eiichi Kowashi
_____, 19____	_____, 19____
Date	Name: Alexander D. Peleg
_____, 19____	_____, 19____
Date	Name: Benny Eitan
_____, 19____	_____, 19____
Date	Name: Stephen A. Fischer
_____, 19____	_____, 19____
Date	Name: Benny Maytal
_____, 19____	_____, 19____
Date	Name: Millind Mittal

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**A SYSTEM FOR SIGNAL PROCESSING USING MULTIPLY-ADD OPERATIONS**

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_____, 19____	_____ Name: Larry M. Mennemeier
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_____, 19____	_____ Name: Tuan H. Bui
Date	
_____, 19____	_____ Name: Eiichi Kowashi
Date	
<u>23 January</u> , 19 <u>96</u>	<u>A. Peleg</u> Name: Alexander D. Peleg
Date	
<u>23 Jan</u> , 19 <u>96</u>	<u>Benny Eitan</u> Name: Benny Eitan
Date	
_____, 19____	_____ Name: Stephen A. Fischer
Date	
_____, 19____	_____ Name: Benny Maytal
Date	
_____, 19____	_____ Name: Millind Mittal
Date	

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_____, 19____	_____ Name: Carole Dulong
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_____, 19____	_____ Name: Benny Eitan
<u>4/26</u> , 19 <u>96</u>	<u>[Signature]</u> Name: Stephen A. Fischer
_____, 19____	_____ Name: Benny Maytal
_____, 19____	_____ Name: Millind Mittal

**Each Inventor: Please also list the date that you signed the accompanying DECLARATION AND POWER OF ATTORNEY:**

_____, 19____
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<u>Jan 18</u> 19 <u>96</u>	<u>Carole Dulong</u>
Date	Name: Carole Dulong
<u>2-29</u> 19 <u>96</u>	<u>Larry M. Mennemeier</u>
Date	Name: Larry M. Mennemeier
____ 19____	____
Date	Name: Tuan H. Bui
____ 19____	____
Date	Name: Eiichi Kowashi
____ 19____	____
Date	Name: Alexander D. Peleg
____ 19____	____
Date	Name: Benny Eitan
____ 19____	____
Date	Name: Stephen A. Fischer
<u>6/18/96</u>	<u>Benny Maytal</u>
Date	Name: Benny Maytal
<u>1/21</u> 19 <u>96</u>	<u>Millind Mittal</u>
Date	Name: Millind Mittal

**Each Inventor: Please also list the date that you signed the accompanying DECLARATION AND POWER OF ATTORNEY:**

<u>Jan 18</u> 19 <u>96</u>
Date
<u>2-29</u> 19 <u>96</u>
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Date
<u>6/18/96</u>
Date
<u>1/21</u> 19 <u>96</u>
Date



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

APRIL 18, 2001

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN  
WILLIAM THOMAS BABBITT  
112400 WILSHIRE BOULEVARD, 7TH FLOOR  
LOS ANGELES, CA 90025

ENTERED

APR 27 2001

CORRECTED  
NOTICE

\*101647821A\*

42390 P8657  
Intel  
EAT

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/15/2000

REEL/FRAME: 011365/0917  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
CHEN, YEN-KUANG

DOC DATE: 11/10/2000

ASSIGNOR:  
YU, NICHOLAS H.

DOC DATE: 11/02/2000

ASSIGNEE:  
INTEL CORPORATION  
2200 MISSION COLLEGE BOULEVARD  
SANTA CLARA, CALIFORNIA 95052

RECEIVED  
DEC 10 2003  
Technology Center 2100

SERIAL NUMBER: 09676556  
PATENT NUMBER:

FILING DATE: 09/30/2000  
ISSUE DATE:

DOROTHY BASMA, PARALEGAL  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

ENTERED  
4/30/2001

04-17-2001



FORM PTO-1595  
(Rev. 6-93)  
OMD No. 0651-0011 (exp. 4/94)

Recordatic

PATENTS ONLY

101647821

U.S. DEPT. OF COMMERCE  
Trademark Office

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
Yen-Kuang Chen; Nicholas H. Yu

2. Name and address of receiving party(ies):

Name: Intel Corporation

Internal Address: \_\_\_\_\_

Additional name(s) of conveying party(ies) attached?

☒ No ☐ Yes

3. Nature of Conveyance:

☒ Assignment ☐ Merger

☐ Security Agreement ☐ Change of Name

☐ Other \_\_\_\_\_

Street Address: 2200 Mission College Boulevard

City: Santa Clara State: CA ZIP: 95052

Execution Date: 11/10/00, 11/02/00

Additional name(s) & address(es) attached? ☒ No ☐ Yes

4. Application number(s) or patent number(s):

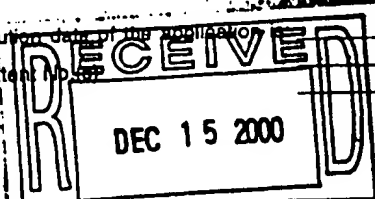
If this document is being filed together with a new application, the execution date of the application is

A. Patent Application No.(s)

09/676,556

B. Patent No. \_\_\_\_\_

Additional numbers attached?



5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Blakely, Sokoloff, Taylor & Zafman

Internal Address: \_\_\_\_\_

Street Address: 12400 Wilshire Boulevard, 7th Floor

City: Los Angeles State: CA ZIP: 90025

6. Total number of applications and patents involved: 1

7. Total Fee (37 CFR 3.41).....\$ 40.00

☒ Enclosed

☐ Authorized to be charged to deposit account

8. Deposit Account Number:

02-2666

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.

William Thomas Babbitt, Reg. No. 39,591

Name of Person Signing

William T. Babbitt

Signature

12/13/00

Date

Total number of pages including cover sheet, attachments, and document: 6

Mail documents to be recorded with required cover sheet information to:  
Assistant Commissioner of Patents, Box Assignments  
Washington, D.C. 20231

Attorney Docket No. 042380.P8657  
(5/27/1997)

12/28/2000 JJALLAH2 00000067 09676556

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PATENT  
REEL: 011365 FRAME: 0917

Attorney's Docket No.: 042390.P8657

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Application)

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned:

**Yen-Kuang Chen; Nicholas H. Yu**

hereby sell, assign, and transfer to:

**Intel Corporation**

a corporation of Delaware, having a principal place of business at 2200 Mission College Boulevard, Santa Clara, California 95052, ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements that are disclosed in the application for the United States patent that was filed September 30, 2000 and assigned Application No. 09/676,356 and is entitled:

**AN EFFICIENT IMPLEMENTATION OF N-POINT DCT, N-POINT IDCT,  
SA-DCT AND SA-IDCT ALGORITHMS**

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Page 1 of 2

**PATENT**  
**REEL: 011365 FRAME: 0918**

**Each Inventor: Please Sign and Date Below:**

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Date:

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Name: Yen-Kuang Chen

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2 Nov 2000

Date:

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*Nicholas H. Yu*  
Name: Nicholas H. Yu

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Name:

**Assignment Document Return Address:**  
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN  
12400 Wilshire Blvd., Seventh Floor  
Los Angeles, CA 90025-1026  
Telephone: (310) 207-3800

**Each Inventor: Please Sign and Date Below:**

11/10/00  
Date:

Yen-Kuang Chen  
Name: Yen-Kuang Chen

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Date:

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Name: Nicholas H. Yu

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